

Title (en)

PROCESS FOR CONTROLLING A PLANT FOR PRODUCING CEMENT BY THE DRY WAY WITH PRECALCINATION

Publication

EP 0248708 B1 19900117 (FR)

Application

EP 87401168 A 19870525

Priority

FR 8608032 A 19860604

Abstract (en)

[origin: US4817008A] To enable the operation of a cement manufacturing installation to be controlled by taking into account changes in essential operating parameters as soon as they appear, the quantity of the total theoretical heat (QT) required to convert the raw material to clinker is calculated by applying correcting coefficients to the quantity of a predetermined total nominal heat (QTO) corresponding to nominal values imposed by parameters (K1, K2, . . . Kn) characteristic of the raw material, of the fuel, of the clinker and of the operation of the installation, the correcting coefficients taking into account differences between the nominal values and measured values of said parameters. The quantity of the theoretical heat (QF) to be supplied to the kiln is calculated by deducting the quantity of heat (QP) supplied to the precalcination chamber from the quantity of total theoretical heat (QT). A consigned value (FF1) of flow of the fuel supplied to the kiln is calculated on the basis of the quantity of the theoretical heat (QF) to be supplied to the kiln, and the actual consigned value (FFO) of the flow control is progressively modified until it has reached the calculated consigned value (FF1) of fuel flow, the progress of variations imposed on the consigned value depending on the conditions of thermal treatment of the raw material and of its dwell time in the kiln. These steps are periodically repeated at relatively close intervals of time.

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